

Miyoo

Build Kernel 4.14.0

目前可從已經移植完Kernel 4.14.0程式碼，使用者可以使用如下指令編譯：

```
$ cd ~/Downloads/
$ git clone https://github.com/steward-fu/flc500s_kernel
$ cd flc500s_kernel
$ make ARCH=arm CROSS_COMPILE=arm-linux-gnueabi- miyoo_defconfig
$ make ARCH=arm CROSS_COMPILE=arm-linux-gnueabi- clean
$ make ARCH=arm CROSS_COMPILE=arm-linux-gnueabi- -j8
```

燒錄到SPI Flash

```
sudo sunxi-fel -p spiflash-write 1048576 arch/arm/boot/dts/suniv-flc500s-miyoo.dtb
sudo sunxi-fel -p spiflash-write 1114112 arch/arm/boot/zImage
```

完成

```
U-Boot SPL 2018.01-gfcaad1c-dirty (Dec 18 2018 - 17:21:52)
DRAM: 32 MiB
Trying to boot from MMC1
Card did not respond to voltage select!
mmc_init: -95, time 22
spl: mmc init failed with error: -95
Trying to boot from sunxi SPI
```

```
U-Boot 2018.01-gfcaad1c-dirty (Dec 18 2018 - 17:21:52 +0800) for Miyoo handheld
```

```
CPU: Allwinner F Series (SUNIV)
Model: Miyoo Handheld
DRAM: 32 MiB
MMC: SUNXI SD/MMC: 0
SF: Detected w25q64cv with page size 256 Bytes, erase size 4 KiB, total 8 MiB
*** Warning - bad CRC, using default environment
```

```
In: serial@1c25400
Out: serial@1c25400
Err: serial@1c25400
Net: No ethernet found.
starting USB...
No controllers found
Hit any key to stop autoboot: 0
SF: Detected w25q64cv with page size 256 Bytes, erase size 4 KiB, total 8 MiB
device 0 offset 0x10000, size 0x4000
SF: 16384 bytes @ 0x100000 Read: OK
device 0 offset 0x110000, size 0x400000
SF: 4194304 bytes @ 0x110000 Read: OK
## Flattened Device Tree blob at 80c00000
Booting using the fdt blob at 0x80c00000
Loading Device Tree to 816f0000, end 816fff07 ... OK
```

Starting kernel ...

```
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Linux version 4.14.0-miyoo (steward@debian) (gcc version 6.3.0 20170516 (Debian 6.3.0-18)) #1 Thu Dec 18 17:48:10 CST 2018
[ 0.000000] CPU: ARMv8L EJ-5 (4109295) revision 5 (ARMv8L EJ), cr=0005317f
[ 0.000000] CPU: VIVT data cache, VIVT instruction cache
[ 0.000000] OF: fdt: Machine model: Miyoo Handheld
[ 0.000000] Memory policy: Data cache writeback
[ 0.000000] random: fast init done
[ 0.000000] Built 1 zonelists, mobility grouping on. Total pages: 8128
[ 0.000000] Kernel command line: console=ttyS1,115200 earlyprintk panic=5 rootwait root=/dev/mmcblk0p2 earlyprintk rw rootfstype=ext4
[ 0.000000] PID hash table entries: 128 (order: -3, 512 bytes)
[ 0.000000] Dentry cache hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Inode-cache hash table entries: 2048 (order: 1, 8192 bytes)
[ 0.000000] Memory: 22680K/32768K available (6144K kernel code, 208K rwdata, 1356K rodata, 1024K init, 248K bss, 10088K reserved, 0K cma-reserved, 0K highmem)
[ 0.000000] Virtual kernel memory layout:
[ 0.000000]   vector : 0xffff0000 - 0xffff1000   ( 4 kB)
[ 0.000000]   fixmap : 0xffc00000 - 0xffff0000   (3072 kB)
[ 0.000000]   vmalloc : 0xc2800000 - 0xff800000   ( 976 MB)
[ 0.000000]   lowmem  : 0xc0000000 - 0xc2000000   ( 32 MB)
[ 0.000000]   pkmap   : 0xbf000000 - 0xc0000000   ( 2 MB)
[ 0.000000]   modules : 0xbf000000 - 0xbf000000   ( 14 MB)
[ 0.000000]   .text : 0xc0008000 - 0xc0700000   (7136 kB)
[ 0.000000]   .init : 0xc0900000 - 0xc0a00000   (1024 kB)
[ 0.000000]   .data : 0xc0a00000 - 0xc0a34120   ( 209 kB)
[ 0.000000]   .bss : 0xc0a392ec - 0xc0a77684   ( 249 kB)
[ 0.000000] SLUB: HWalign=32, Order=0-3, MinObjects=0, CPUs=1, Nodes=1
[ 0.000000] NR_IRQS: 16, nr_irqs: 16, preallocated irqs: 16
[ 0.000415] sched_clock: 32 bits at 24MHz, resolution 41ns, wraps every 89478484971ns
[ 0.000111] clocksource: timer: mask: 0xffffffff max_cycles: 0xffffffff, max_idle_ns: 79635851949 ns
[ 0.000612] Console: colour dummy device 80x30
[ 0.000700] Calibrating delay loop... 203.16 BogoMIPS (lpj=1015808)
[ 0.070235] pid_max: default: 32768 minmax: 301
[ 0.070575] Mount-cache hash table entries: 1024 (order: 0, 4096 bytes)
[ 0.070625] Mountpoint-cache hash table entries: 1024 (order: 0, 4096 bytes)
[ 0.072032] CPU: Testing write buffer coherency: ok
[ 0.073616] Setting up static identity map for 0x80100000 - 0x80100058
[ 0.076036] devtmpfs: initialized
[ 0.082683] clocksource: jiffies: mask: 0xffffffff max_cycles: 0xffffffff, max_idle_ns: 19112604462750000 ns
[ 0.082751] futex hash table entries: 256 (order: -1, 3072 bytes)
[ 0.083002] pinctrl core: initialized pinctrl subsystem
[ 0.084983] NET: Registered protocol family 16
[ 0.086478] DMA: preallocated 256 KiB pool for atomic coherent allocations
[ 0.088334] cpuidle: using governor menu
[ 0.112382] SCSI subsystem initialized
[ 0.112674] usbcore: registered new interface driver usbfs
[ 0.112828] usbcore: registered new interface driver hub
[ 0.113029] usbcore: registered new device driver usb
[ 0.113457] pps core: LinuxPPS API ver. 1 registered
[ 0.113490] pps core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti
[ 0.113556] PTP clock support registered
[ 0.114055] Advanced Linux Sound Architecture Driver Initialized.
[ 0.117082] clocksource: Switched to clocksource timer
[ 0.142919] NET: Registered protocol family 2
[ 0.14326] TCP established hash table entries: 1024 (order: 0, 4096 bytes)
[ 0.144408] TCP bind hash table entries: 1024 (order: 0, 4096 bytes)
[ 0.144461] TCP: Hash tables configured (established 1024 bind 1024)
[ 0.144719] UDP hash table entries: 256 (order: 0, 4096 bytes)
[ 0.144784] UDP-Lite hash table entries: 256 (order: 0, 4096 bytes)
[ 0.145224] NET: Registered protocol family 1
[ 0.146196] RPC: Registered named UNIX socket transport module.
[ 0.146239] RPC: Registered udp transport module.
[ 0.146288] RPC: Registered tcp transport module.
[ 0.146276] RPC: Registered tcp NFSv4.1 backchannel transport module.
[ 0.147568] NetWinder Floating Point Emulator V0.97 (double precision)
[ 0.149342] Initialise system trusted keyrings
[ 0.149903] workingset: timestamp_bits=30 max_order=13 bucket_order=0
[ 0.166835] NFS: Registering the id_resolver key type
[ 0.166948] Key type id_resolver registered
[ 0.166975] Key type id_legacy registered
[ 0.179655] Key type asymmetric registered
[ 0.179699] Asymmetric key parser 'x509' registered
[ 0.179910] Block layer SCSI generic (bsg) driver version 0.4 loaded (major 251)
[ 0.179944] io scheduler noop registered
[ 0.179963] io scheduler deadline registered
[ 0.180078] io scheduler cfq registered (default)
[ 0.180714] io scheduler mq-deadline registered
[ 0.180734] io scheduler kyber registered
[ 0.181794] sunxi-usb-phy lc13400.phy: Couldn't request ID GP10
[ 0.191602] suniv-pinctrl lc20800.pinctrl: initialized sunxi PIO driver
[ 0.360150] Serial: 8250/16550 driver, 8 ports, IRQ sharing disabled
[ 0.386849] lc25000.serial: ttyS0 at MMIO 0xc25000 (irq = 22, base_baud = 6250000) is a 16550A
[ 0.409521] lc25400.serial: ttyS1 at MMIO 0xc25400 (irq = 23, base_baud = 6250000) is a 16550A
[ 0.888644] console (ttyS1) enabled
[ 0.897880] SCSI Media Changer driver v0.25
[ 0.903405] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 0.910659] ehci-platform: EHCI generic platform driver
[ 0.915334] ehci_hcd: USB 1.1 'Open' Host Controller (OHC1) Driver
[ 0.921833] ohci-platform: OHCI generic platform driver
[ 0.927483] usbcore: registered new interface driver usb-storage
[ 0.933932] musb-sunxi lc13000.usb: Invalid or missing 'dr_mode' property
[ 0.940872] musb-sunxi: probe of lc13000.usb failed with error -22
[ 0.947427] i2c /dev entries driver
[ 1.007216] sunxi-mmc lc0f000.mmc: base:0xc2857000 irq:18
[ 1.014616] usbcore: registered new interface driver usblid
[ 1.020319] usblid: USB HID core driver
[ 1.041735] NET: Registered protocol family 17
[ 1.046422] Key type dns_resolver registered
[ 1.053273] Loading compiled-in X.509 certificates
[ 1.069711] ALSA device lists:
[ 1.072713]   #0: Loopback 1
[ 1.076766] Waiting for root device /dev/mmcblk0p2...
[ 1.205248] mmc0: host does not support reading read-only switch, assuming write-enable
[ 1.218298] mmc0: new high speed SDHC card at address aaaa
[ 1.224727] mmcblk0: mmc0:naaa SU04G 3.69 GiB
[ 1.244690] mmcblk0: p1 p2
[ 1.319673] EXT4-fs (mmcblk0p2): recovery complete
[ 1.328649] EXT4-fs (mmcblk0p2): mounted filesystem with ordered data mode. Opts: (null)
[ 1.336847] VFS: Mounted root (ext4 filesystem) on device 179:2.
[ 1.346585] devtmpfs: mounted
[ 1.354094] Freeing unused kernel memory: 1024K
[ 1.740530] EXT4-fs (mmcblk0p2): re-mounted. Opts: data=ordered
```

```
Starting logging: OK
Initializing random number generator... done.
/# uname -r
4.14.0-miyoo
```

完成



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